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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/723,727	11/26/2003	Fernando C. M. Martins	P16775	9793	
59796 INTEL CORPO	7590 09/24/2007 ORATION		EXAMINER		
c/o INTELLEV	ATE, LLC	WAI, ERIC CHARLES			
P.O. BOX 520 MINNEAPOL		ART UNIT	PAPER NUMBER		
			2195		
			MAIL DATE	DELIVERY MODE	
			09/24/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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		Application N	lo. ,	Applicant(s)				
		10/723,727		MARTINS ET AL.				
	Office Action Summary	Examiner		Art Unit				
		Eric C. Wai		2195				
Pe	The MAILING DATE of this communication appriod for Reply	ppears on the co	ver sheet with the c	orrespondence add	iress			
	A SHORTENED STATUTORY PERIOD FOR REPLEWHICHEVER IS LONGER, FROM THE MAILING DESTANDANCE OF THE MAILING	DATE OF THIS (.136(a). In no event, h d will apply and will exp te, cause the application	COMMUNICATION owever, may a reply be timulation of the state of the st	I. lely filed the mailing date of this col O (35 U.S.C. § 133).				
St	atus							
	1) Responsive to communication(s) filed on 26 I	November 2003	•					
	_							
 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits in the merits in								
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Di	sposition of Claims							
	4)⊠ Claim(s) <u>1-31</u> is/are pending in the application	n.						
	4a) Of the above claim(s) is/are withdra		leration.					
	5) Claim(s) is/are allowed.			•				
	6)⊠ Claim(s) 1-31 is/are rejected.				•			
	7) Claim(s) is/are objected to.							
	8) Claim(s) are subject to restriction and/	or election requi	irement.					
Αŗ	pplication Papers							
	9) The specification is objected to by the Examin	ıer						
	10)⊠ The drawing(s) filed on <u>26 November 2003</u> is/		oted or h) Cobject	ed to by the Exami	iner			
	Applicant may not request that any objection to the	•	•	•				
	Replacement drawing sheet(s) including the correct	- · ·	•	` '	R 1 121(d)			
	11) The oath or declaration is objected to by the E							
Pr	iority under 35 U.S.C. § 119							
	12) ☐ Acknowledgment is made of a claim for foreig a) ☐ All b) ☐ Some * c) ☐ None of:	n priority under	35 U.S.C. § 119(a)	-(d) or (f).				
	1. ☐ Certified copies of the priority documen	nts have heen re	aceived					
				on No				
	 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage 							
	application from the International Burea	-		o in this trational t	Stage			
	* See the attached detailed Office action for a lis	•	` ''	d.				
Δ++	achment(s)							
	☑ Notice of References Cited (PTO-892)	ا ده	Interview Summary	(PTO-413)				
2)	Notice of Draftsperson's Patent Drawing Review (PTO-948)	· · · · · · · · · · · · · · · · · · ·	Paper No(s)/Mail Da	ite				
3)	Information Disclosure Statement(s) (PTO/SB/08)	5) [6) [Notice of Informal P Other:	atent Application				
	Paper No(s)/Mail Date) (ه	Ouler					

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DETAILED ACTION

1. Claims 1-31 are presented for examination.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- Claims 28-31 rejected under 35 U.S.C. 102(e) as being anticipated by Naik et al.
 (US PG Pub No. US 2006/0294238 A1 hereinafter Naik).
- 4. Regarding claim 28, Naik teaches a method of sharing resources on a grid network, comprising:

retrieving predefined policies for a grid virtual machine on a host ([0077]);

monitoring the grid virtual machine on the host to determine if the grid virtual machine violates the predefined policies ([0077], wherein the policy handler enforces policies); and

taking appropriate action if the grid virtual machine violates at least one of the predefined policies ([0078]).

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5. Regarding claim 29, Naik teaches that monitoring the grid virtual machine additionally comprises allocating resources to the grid virtual machine as necessary ([0084], "sharing resources").

6. Regarding claims 30-31, they are the article claims of claims 28-29 above. Therefore, they are rejected for the same reasons as claims 28-29.

Claim Rejections - 35 USC § 103

- 7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 8. Claims 1-27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Naik et al. (US PG Pub No. US 2006/0294238 A1).
- 9. Regarding claim 1, Naik teaches a method of sharing resources on a grid network, comprising:

configuring a host to include a grid virtual machine ([0074] lines 10-15, wherein a host computer includes a virtual machine and operating system that can support grid applications);

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allocating resources on the host to the grid virtual machine (it is inherent that resources be allocated to the grid VM running on the host); and

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executing a grid application in the grid virtual machine ([0074] line 14).

- Naik does not explicitly teach a second virtual machine. However, it would have been obvious to one of ordinary skill in the art that a second virtual machine could run on the system. One would be motivated by the desire to operate another virtual machine to perform other services as indicated by Naik ([0021]).
- 11. Regarding claim 2, Naik teaches that allocating the resources further comprises a virtual machine manager allocating at least the portion of the resources ([0074] lines 15-16, wherein it is well known in the art that a VMM assists in mapping resources).
- 12. Regarding claim 3, Naik teaches that a resource manager allocates resources to the grid virtual machine to supplement the resources allocated by the virtual machine manager ([0048], wherein a hierarchy of resource managers assists in managing resources).
- 13. Regarding claim 4, Naik teaches that the resource manager performs dynamic load balancing on the grid network ([0048-055], wherein the resource manager can predict and forecast the load on the resources).

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14. Regarding claim 5, Naik does not explicitly teach that the second virtual machine is configured to run applications other than the grid application.

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- 15. It would have been obvious to one of ordinary skill in the art at the time of the invention that a second virtual machine is configured to run applications other than the grid application. Naik teaches that each virtual machine operates as an indiviauld machine by itself ([0021]). One would be motivated by the desire to operate another virtual machine to perform other services as indicated by Naik.
- 16. Regarding claim 6, Naik teaches that the grid virtual machine is isolated from the second virtual machine ([0021]).
- 17. Regarding claim 7, Naik teaches: retrieving predefined policies for the grid virtual machine ([0077]); and monitoring the grid virtual machine to determine if the grid virtual machine violates the predefined policies ([0077], wherein the policy handler enforces the policies).
- 18. Regarding claim 8, Naik teaches that the predefined policies include predefined resource thresholds for the grid virtual machine ([0078]).
- 19. Regarding claim 9, Naik teaches that a resource manager takes appropriate action if the grid virtual machine violates at least one of the predefined policies ([0078]).

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20. Regarding claim 10, Naik teaches that the resource manager taking action further comprises at least one of the resource manager automatically limiting resources available to the grid virtual machine ([0078]), and the resource manager notifying a user that the grid virtual machine violated at least one of the predefined policies.

- 21. Regarding claims 11-20, they are the article claims of claims 1-10 above. Therefore, they are rejected for the same reasons as claims 1-10 above.
- 22. Regarding claims 21-24, they are the system claims of claims 1-3, 7, and 9-10 above. Therefore, they are rejected for the same reasons as claims 1-3, 7, and 9-10 above.
- 23. Regarding claim 25, Naik teaches a grid network, comprising:

a first host capable of running a first grid virtual machine and a second virtual machine ([0074]).

- 24. Naik does not explicitly teach a second host coupled to the first host, the second host capable of running a second grid virtual machine and a third virtual machine, the first grid virtual machine and the second grid virtual machine capable of simultaneously executing a grid application.
- 25. However, Naik teaches the concept of grid computing wherein it is inherent that multiple host computers exists in a loosely coupled fashion to perform a common task

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([0007]). It would have been obvious to one of ordinary skill in the art at the time of the invention to have a second host coupled to the first host with similar capabilities to execute a common application. One would be motivated by the desire to pool together many computing resources to perform a large task ([0006]).

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- 26. Regarding claim 26, Naik teaches that the first host includes a first resource manager and the second host includes a second resource manager, the first resource manager and the second resource manager each capable of allocating resources to the first grid virtual machine and second grid virtual machine respectively ([0048], wherein a hierarchy of resource managers assists in managing resources).
- 27. Regarding claim 27, Naik teaches that the first resource manager and the second resource manager are additionally capable of retrieving policies for the first grid virtual machine and the second grid virtual machine respectively ([0077]).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Eric C. Wai whose telephone number is 571-270-1012. The examiner can normally be reached on Mon-Thurs, 9am-5pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Meng - Ai An can be reached on 571-272-3756. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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